

# LOG 235

## Performance Based Logistics

On the Move:



**Fielding Expected June 03**

**Dr. Russell A. Vacante**

**CDSC DAU**

**Thursday 24 October /02**

# LOG 235



## Performance Based Logistics

### **COURSE Modes & SCHEDULE:**

**LOG 235 is a hybrid course of distance learning and resident modes. Students will complete a 50 hours DL course requirement over 60 days via readings, on-line and other media research, and e-mail. This is followed by a 4 ½ day resident classroom session dedicated to group activities (e.g., exercises and case analyses) in which they will demonstrate the successful application of the tools and techniques learned in the Distance Learning portion.**

# LOG 235



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## **DL Module 1** (Weeks 1 & 2)

- **Advance Product Support, Part I & II**
- **Business Case Analysis, Part I**
- **Reliability, Availability & Maintainability**
- **Support Options, Part I**

## **DL Module 2** (Weeks 3 & 4)

- **Business Case Analysis, Part II**
- **Supply Chain Management, Part I**
- **Commercial Integration, Part I**
- **Support Options, Part II**

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### **DL Module 3** (Weeks 5 & 6)

- **Advanced Product Support, Part IV**
- **Continuous Modernization, Part I**
- **Commercial Integration, Part II**
- **Supply Chain Management, Part II**
- **Flexible Sustainment, Part I**

### **DL Module 4** (Weeks 7 & 8)

- **Advanced Product Support, Part V**
- **Continuous Modernization, Part II**
- **Supply Chain Management, Part III**
- **Configuration Management**
- **Enterprise Integration**

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**Weeks 9 & 10 - Break**

**Resident Program: Week 11 (4.5 weeks)**

- **Business Case Analysis, Part III**
- **Continuous Modernization, Part III]**
- **Supply chain Management, Part IV**
- **Commercial Integration, Part III**
- **Support Options, Part IV**

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### LOG 235 – Course Framework

2 Week Break

<b>DL Module 1</b> <b>Weeks 1 &amp; 2</b>	<b>DL Module 2</b> <b>Weeks 3 &amp; 4</b>	<b>DL Module 3</b> <b>Weeks 5 &amp; 6</b>	<b>DL Module 4</b> <b>Weeks 7 &amp; 8</b>	<b>Resident</b> <b>Week 11</b>
Advanced Product Support Parts I & II	Advanced Product Support Part III	Advanced Product Support Part IV	Advanced Product Support Part V	Business Case Analysis Part III
Business Case Analysis Part I	Business Case Analysis Part II	Continuous Modernization Part I	Continuous Modernization Part II	Continuous Modernization Part III
Reliability, Maintainability & Availability	Supply Chain Management Part I	Commercial Integration Part II	Supply Chain Management Part III	Supply Chain Management Part IV
Support Options Part 1	Commercial Integration Part 1	Supply Chain Management Part II	Configuration Management	Commercial Integration Part III
	Support Options Part II	Flexible Sustainment Part 1	Enterprise Integration	Support Options Part IV

# LOG 235



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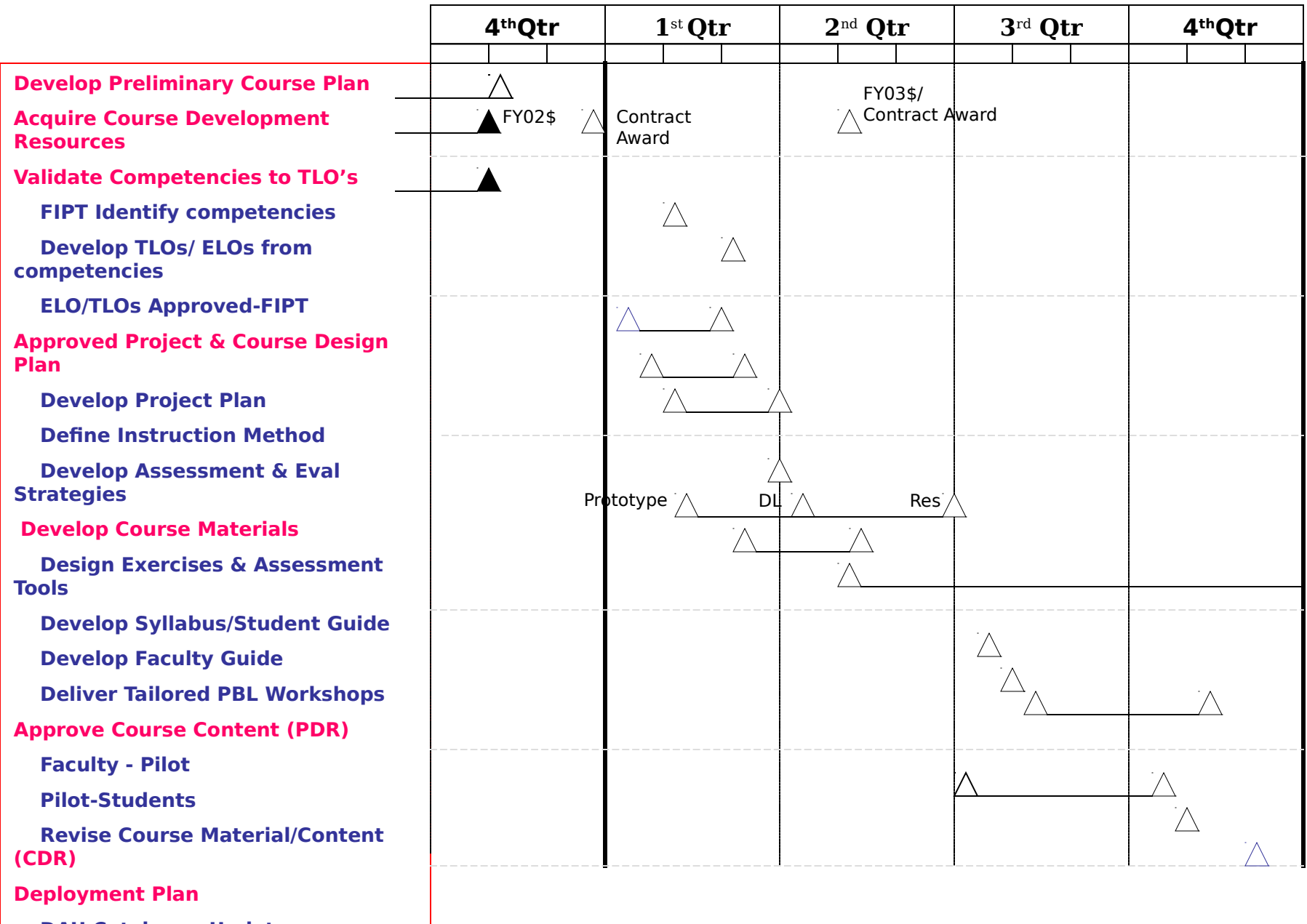
### Milestones Established:

- Phase 1 High Level Design 8/5-9/27/02
- Phase 2 DL Concept 9/23-12/4/02  
Assessment
- Phase 3 Detail Course Design 9/26-12/5/02
- Phase 4 Production 12/6-5/2/03
- Phase 5 Operational Test 6/11-6-09/03  
& Evaluation
- Phase 6 Deployment 6/11-9/22/03

# Log 235 Preliminary Timeline

FY-02

FY-03





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### **Part I** **SUPPLY CHAIN MANAGEMENT (SCM)**

#### **TLO:**

**Given the web instruction and readings describe the concept of supply chain management and discuss how emerging private sector and DoD**

**SCM strategies can be used for implementing a SCM program in DoD.**

#### **ELOs:**

- Describe the major elements of SCM.**
- Explain the structure of the Supply Chain Operational**

#### **Reference**

**(SCOR) model.**

- List several private sector SCM strategies**
- Explain how several private sector SCM strategies can be applied in the DoD .**

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### Part II (SCM Con't)

#### **TLO:**

**Formulate a plan to implement a supply chain strategy using one or more major supply chain management processes that includes appropriate measurements/metrics for the selected strategy.**

#### **ELOs:**

- **Describe the major processes of SCM as documented in the Supply Chain Operation Reference Model.**
- **Identify selected best commercial practices that have potential for improving DoD SCM.**
- **List common tools of measurement /metrics utilized in SCM**
- **Explain the concept of a Balanced Scorecard.**

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### Part III (SCM Con't)

#### **TLO:**

**Explain the relationship of supply chain management with Joint Vision 2020, the Future Logistics Environment (FLE), and the Enterprise Integration (EI).**

#### **ELOs:**

- **Define EI**
- **Explain how SCM can be viewed as a major component of the Future Logistics Environment (FLE).**
- **Explain how SCM can be viewed as a major component of EI**

#### **TLO:**

**Identify e-business initiatives that could support the implementation of a SCM program in DoD and describe the relationship between SCM and other major portions of the LOG 235 course, particularly Performance Based Logistics (PBL) and Flexible Sustainment**

# LOG 235



## Performance Based Logistics

### **Part I** **Performance Based Logistics (PBL)**

#### **TLO:**

**Given current DoD policy guidance, describe the role PBL plays in the weapon system acquisition and sustainment process and how PBL supports DoD's overall Future Logistics Enterprise (FLE) initiatives.**

#### ***ELOs:***

- **Define PBL.**
- **Describe how PBL is different from the traditional approach to logistics.**
- **Describe the role that PBL plays in DoD's weapon system acquisition and sustainment process.**
- **Explain the evolutionary nature of logistics during spiral development and incremental development processes.**
- **Define spiral development.**
- **Describe FLE and its relationship with PBL.**

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## Performance Based Logistics



### Part I (PBL Con't)

#### **TLO:**

**Describe how PBL requirements are addressed at various stages of a weapon system life cycle, including the programs already in the sustainment phase.**

#### ***ELOs:***

- ***Indicate the PBL requirements and issues addressed at the following life cycle stages:***
  - Concept Technology and Development***
  - System Development and Demonstration***
  - Production & Deployment***
  - Operations & Support***
- ***Recognize the relationship between PBL and***
  - Operational requirements***
  - Systems engineering***
  - Test and evaluation***
  - Production***
  - Life cycle cost analysis***
- ***Explain the relationship between the weapon system program***

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### Part II (PBL Con't)

#### **TLO:**

**Identify weapon system program characteristics to consider when tailoring the PBL approach to a program.**

#### ***ELO:***

***Describe how program characteristics can be used to determine the appropriate level of PBL implementation.***

#### **TLO:**

**Identify the major actions associated with organizing and initiating a PBL arrangement.**

#### ***ELOs:***

- Identify the stakeholders.***
- Describe the makeup and operation of the IPT.***
- Describe how issues will be elevated and resolved.***

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### Part II (PBL Con't)

#### **TLO:**

**Describe the steps needed to develop a PBL strategy, including the selection and role of the product support integrator.**

#### ***ELOs:***

- ***Describe the roles of the acquisition logistician and system sustainment logistician in developing a PBL strategy in the evolving Total Life Cycle***
- ***System Management environment.***
- ***Describe the role of systems engineering, cost analysts, budget personnel and contract personnel in development and coordination of a PBL strategy.***
- ***Describe the conditions where it may be appropriate to have the systems integrator become the product support integrator.***

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### Part II (PBL Con't)

#### **TLO:**

**Discuss the issues associated with negotiating and formalizing performance agreements with warfighters.**

#### **ELOs:**

- ***Discuss the process of negotiating and formalizing agreements with warfighters.***
- ***Discuss the management process necessary to accommodate evolving warfighter requirements over the life cycle of the weapon system.***
- ***Explain the performance assessment process to include metrics, measurement and evaluation criteria.***



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### Part III (PBL Con't)

**TLO: Describe the requirements and structure for a business case analysis.**

***ELOs:***

- ***Explain the management expectations for a BCA.***
- ***Describe the analytical structure for the BCA.***
- ***Explain the importance of explicitly stating BCA assumptions.***
- ***Describe the role of the BCA as an evolving assessment tool.***
- ***Explain “core” and other policy and legal issues.***

**TLO: Recognize key issues related to PBL that are associated with developing a  
Statement Of Work or Statement Of Objectives.**

***ELOs:***

- ***Describe how to operationalize the warfighter's performance requirements.***
- ***Explain how to establish business relationships for meeting performance requirements***
- ***Describe the elements that constitute a SOW or SOO.***
- ***Describe the steps involved in awarding a contract or establishing a service level***

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### Part III (PBL Con't)

#### **TLO:**

**Discuss the responsibilities of the PM in establishing performance and baselines and metrics, and monitoring performance for purposes of incentives penalties.**

#### ***ELOs:***

- ***Explain the importance of monitoring contracts or service level agreements with organic providers relative to performance baselines and metrics.***
- ***Describe the development and application of incentives & penalties.***

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### Part IV (PBL Con't)

**TLO:**

**Describe the key system sustainment processes.**

***ELOs:***

- ***Describe the day-to-day workplace process issues: e.g., requisitioning, accountability, tracking, asset visibility, surge, retrograde.***
- ***Discuss funding concepts and issues.***

**TLO: Explain the surge or mobilization issues to consider in**

**PBL**

**arrangements.**

***ELOs:***

- ***Define surge.***
- ***Define mobilization.***

# LOG 235



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### Part V (PBL Con't)

#### **TLO:**

**Review the requirements for effective alignment between an evolutionary acquisition program and PBL application.**

#### **ELOs:**

- ***Describe how to establish a management process for alignment with evolutionary acquisition programs.***
- ***Explain the implications of technology cycles to PBL plans and implementation.***
- ***Describe the implications of PBL initiatives within multi-national programs.***
- ***Discuss how PBL solutions can provide a basic level of support supplemented by additional levels of support tailored to***

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## Performance Based Logistics



### Reliability, Maintainability & Supportability

#### **TLO:**

**Given current DoD policy and best practices, identify how reliability, maintainability and supportability will impact the logistical support and total ownership cost of a system.**

#### **ELOs:**

- **Distinguish between the terms reliability, maintainability, and supportability.**
- **Differentiate between mission reliability and logistics reliability.**
- **Restate the three measures of combat capability that are enhanced by a reliable and maintainable design.**
- **Summarize three major approaches for assessing the reliability and maintainability of commercial and non-developmental items.**  
**Identify how each of the following analytical processes are used in the development of a reliable, maintainable, and affordable system:**
  - **Failures Modes, Effects, and Criticality Analysis (FMECA)**
  - **Reliability Centered Maintenance Analysis (RCMA)**
  - **Reliability Allocations and Predictions**

# LOG 235



## Performance Based Logistics

### **Conclusion:**

- **Government-contractor team working well.**
- **DIMPS implementation a success story.**
- **Interim Performance Review on 12-15 Nov/02 on schedule.**
- **PBL/SCM & RMS “lessons” to be briefed to LOG FIPT in Dec/02.**
- **Mid-June 03 course delivery date on schedule**